

Attorney Docket No.: **BIS-043/CIP (BI-0004US.P1)**
Inventor: **Simons and Gao**
Serial No.: **09/426,011**
Filing Date: **October 25, 1999**
Page 3

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1-10 (canceled).

Claim 11 (currently amended): A family of PR-39 derived oligopeptides whose members individually cause a selective inhibition of proteasome-mediated degradation for at least one identifiable peptide in-situ after introduction intracellularly to a viable cell, each member of said PR-39 derived oligopeptide family comprising:

a peptide ~~not substantially greater than~~ of 8 to 11 amino acid residues in length;

a peptide ~~having a N-terminal amino acid residue sequence which begins with Arg-Arg-Arg~~ comprising the N-terminal amino acid sequence of Arg-Arg-Arg-Pro-Arg-Pro-Pro-Tyr (SEQ ID NO:5);

a peptide which is devoid of the amino acid residue sequences Pro-Pro-X-X-Pro-Pro-X-X-Pro and Pro-Pro-X-X-X-Pro-Pro-X-X-Pro where X is any amino acid;

a peptide able to be introduced intracellularly to a viable cell;

a peptide able to interact selectively in-situ with such proteasomes as are present within the cytoplasm of the cell; and

a peptide able to alter markedly the proteolytic degradation of at least one identifiable peptide mediated by said interacting proteasomes such that an increased expression of said identifiable peptide occurs in-situ.

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Page 4

Claims 12-14 (canceled).

Claim 15 (currently amended): The PR-39 derived oligopeptide family as recited in claim 11 whose membership includes a peptide ~~comprised~~ of 11 amino ~~acids~~ acid residues and whose sequence is Arg-Arg-Arg-Pro-Arg-Pro-Pro-Tyr-Leu-Pro-Arg (SEQ ID NO:4).

Claim 16 (currently amended): The PR-39 derived oligopeptide family as recited in claim 11 whose membership includes a peptide ~~comprised~~ of 8 amino ~~acids~~ acid residues and whose sequence is Arg-Arg-Arg-Pro-Arg-Pro-Pro-Tyr (SEQ ID NO:5).